

IN THE SPECIFICATION

page 1, line 24: A primary objective of the present invention is to redesign a structure of an ink cartridge, whereby ~~a~~an siphon equilibration tube is configured within an ink receptacle of the ink cartridge, and utilizes a principle of a siphoning phenomenon. The ink cartridge thereby eliminates need for any sponge to be used as material for the ink cartridge, and achieves reusability of the ink cartridge without affecting quality of printing of the ink cartridge, and without causing problems in environmental protection recovery.

page 3, line 16:

A siphon equilibration tube 16 is configured within the ink receptacle 10 of the Ink cartridge 1, an inclined opening 161 of a lower extremity of the equilibration tube siphon 16 realizes a mutual passage with the ink receptacle 10 and provides for ink B within the ink receptacle 10 to enter the equilibration tube siphon 16 therein, while an upper extremity of the siphon equilibration tube 16 realizes a mutual passage with ~~air~~the atmosphere external to the ink cartridge 1. Referring to FIG. 3, which shows that when ink level of the ink B within the ink receptacle 10 is higher than level of the strainer 13, due to siphon equilibration tube principle, leakage of the ink B from the rubber washer 15 of the ink cartridge 1 in contact with the nozzle area is prevented. Furthermore, the ink B will not spill from the equilibration tube siphon 16. When the ink level of the ink B within the ink receptacle 10 is lower than the level of the strainer 13, the siphon equilibration tube principle does not come into effect. However, the strainer 13 is ~~circumjacently configured with supported by a plastic retaining wall~~ 17 that counterchecks the ink B from leaking out of the nozzle contact area, as well as preventing spillage of ink from the siphon equilibration tube 16.

Referring to FIGS. 4, 5, and 6, which show the siphon equilibration tube 16 of the present invention can be additionally peripherally configured with an inner tube 18 and an outer tube 19. The inner tube 18 is so configured to be eccentric to the siphon equilibration tube 16, thereby resulting in an air hole 181 being formed between the inner tube 18 and the outer tube 19. The air hole 181, moreover, realizes a mutual passage with the siphon equilibration tube 16.

Referring to FIG. 7, which shows a method for refilling the ink B, whereby the ink cartridge 1 is first retrieved from the printer and placed upside down. An ink filling instrument C having a syringe shape is utilized to slowly inject the ink B into the ink receptacle 10 through an ink refill hole of the rubber washer 15 that contacts the nozzle, and the ink B is continually injected until the ink B approaches a refill line D, whereupon refilling is stopped; thus preventing the ink B from spilling out of the siphon equilibration tube 16. In addition, because the ink cartridge 1 is made from transparent plastic, therefore a user is able to clearly see the level of the filling ink, and thereby know when the ink B approaches the refill line D.